

FIG. 1

APPLN. FILING DATE: FEBRUARY 21, 2002
 TITLE: A PRECURSOR POLYPEPTIDE OF PHYTOSULFOKINE DERIVED FROM
 ARABIDOPSIS THALIANA AND A GENE ENCODING SAID POLYPEPTIDE
 INVENTOR(S): YOJI SAKAGAMI ET AL.
 APPLICATION SERIAL NO: NEW APPLICATION SHEET 1 of 10

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1  TTTAAGCATCTCTCTCCCTTCAAGAAGAAATATACACAAAATGGCAACGCTCTCCGCTTG  60
    M A N V S A L
61  CTCACCATAGCTCTTCTCCTTTGCTCCACGCTAATGTGCACTGCCCGCCCGAACC GGCC  120
    L T I A L L L C S T L M C T A R P E P A
121 ATCTCCATCTCTATCACGACTGCTGCCGATCCATGTACATGGAGAGAAGATAGAAGGA  180
    I S I S I T T A A D P C N M E K I E G
181 AAATTAGATGACATGCATATGGTAGAAGAAAACCTGTGTGCAGACGACGACGATTGCTTA  240
    K L D D M H M V E E N C G A D D E D C L
241 ATGAGGAGGACTTTGGTGGCTCATCTACTGATTACATCTATACCCAGAAGAAGCATCCT  300
    M (R) T L V A H T D Y I Y T Q (K) (K) H P
301 TGATTTTCACTTACTCATTTCTTAACAAACTTTTGCTCAAGATTATGTAATTATGTCATC  360
    *
361 CTTAATTAGTATTGTGCACATCAAGATCAAGATAGTTATGATTGTGATTATTATATGT  420
421 ATTTTGGATGATATATTGTAGACTAGAAGTTTGACATAAAAAGTTTATAGTGTGCTTG  480
481 TATGTTTAAAGAAGTTTGACATAAAAACTTTATAGTGTGTGCAAAAAA AAAAAA  540
541 AAAAA 545
  
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FIG. 2

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1  CTCTCAGGCTCCCATTTATCTTCTCTCTATTTTGCAAATCAGTATGGGTAAGTTTCAACAACC  60
    M G K F T T
61  ATTTTCATCATGGCTCTCCCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCG  120
    I F I M A L L L C S T L T Y A A R L T P
121  ACGACAACCAACCGCTTTGTCCAGAGAAACTCCGTCAAGGAJAATTGAAGGAGACAAAGGTT  180
    T T T A L S R E N S V K E I E G D K V
181  GAAGAAGAAGCTGCAACGGAAATTGGAGAGAAGAAATGTTTGAATAAGACGAAGCCTTCTT  240
    E E E S C N G I G E E C L I (R) S L L
241  CTTCACACCGATTACATTTATCTCAGAAATCACAAGCCCTAAGTTTCTGTATTAGAGCAA  300
    L H T D Y I Y T Q N H (K) P *
301  TTAATTACTAATTACATTATCAAAACCTATCACTGTAGTACTTCTGTCTTCTGTTCGTC  360
361  TTTTGTGTTTGTGTTTATGTTATCGCTATTTTAAAGTTTCATGTTATTTTGAAG  420
421  TTCTTACACCATCATTTATGATAGTCTCTTAAACAAAAAATAAAAAAATAAAAAA  479
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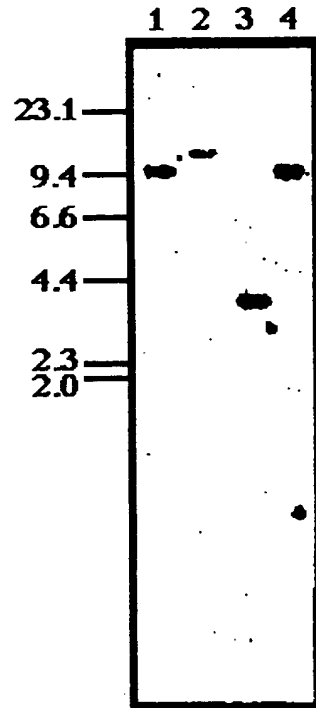
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FIG. 3



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FIG. 4

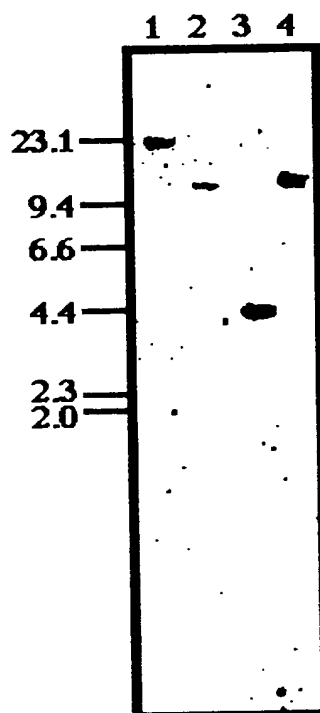


FIG. 5

OsPSK	1:MYN-PGRTARALCLLCLALLLLGQDTHSRK	29
AtPSK2	1:MANYSAALLTIAL-LLCSTLMCTARPEPAIS	29
	* * * * *	
OsPSK	30:L-LLQEKHSHGVGNITTTTQEPSRENGGST	58
AtPSK2	30:ISITTAADPCNMEKKIEGKLDDMHMVEENC	59
OsPSK	59:GSNNNGQLQFDSAKWEEFHTDYIYTQDYKN	88
AtPSK2	60:GADDEDCL-MRRT-LVA-HTDYIYTQKKKH	86
	* * * * *	
OsPSK	89:P	89
AtPSK2	87:P	87
	*	

FIG. 6

OsPSK	1:	MVNPGR	TARALCLLCLALLLLGQDTHSRKL	30
AtPSKL	1:	—HGKFT—TI—FI—MALLLCSTLTYAARL	24	
		*	*****	* *
OsPSK	31:	LLQEKHSHGVGN	TTTTQEPSRENGGSTGS	60
AtPSKL	25:	TPTTTTALSRENSVKEIEGDKVEEESCNGI	54	
		*	*	*
OsPSK	61:	NNNGQLQFDSAKVEEFHTDYIYTQDYKNP	89	
AtPSKL	55:	GEEEC—I—R—RSLLLHTDYIYTQNHK—P	79	
		*	*****	* *

FIG. 7

AtPSK2	1:	HANYSALLTIALLLCSTLMCTARPEPAISI	30
AtPSKL	1:	HGKFTTIFIMALLLCSTLTYAARLTPTTTT	30
		*	*****
AtPSK2	31:	SITTAADPCNHEKKIEGKLDDHHMVEENC—	59
AtPSKL	31:	ALSR—EN—SV—KEIEG—DKVE—EESC—N	52
		*	***
AtPSK2	60:	GADDEDCLMRRTILVAHTDYIYTQKKKHP	87
AtPSKL	53:	GIGEEEC—LIRRSLLLHTDYIYTQNHK—P	79
		*	*****

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FIG. 8

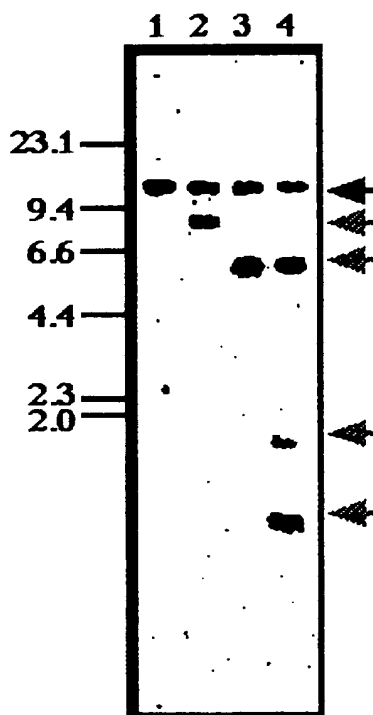


FIG. 9

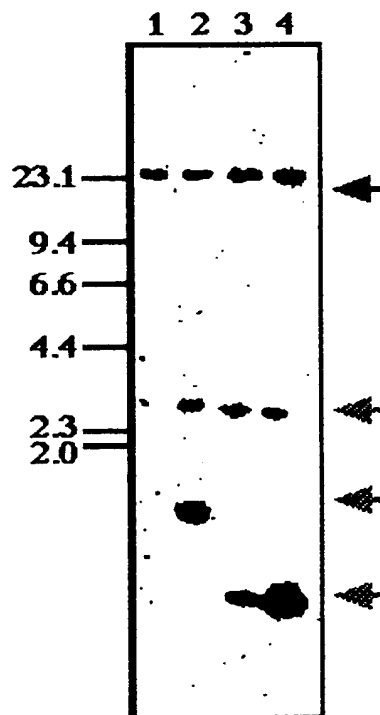


FIG. 10

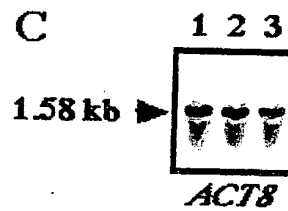
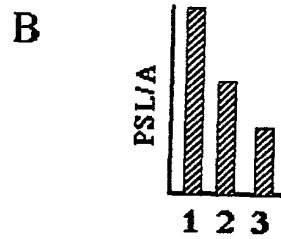
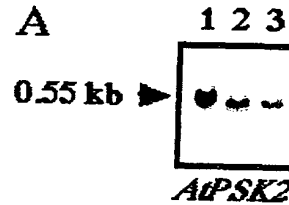
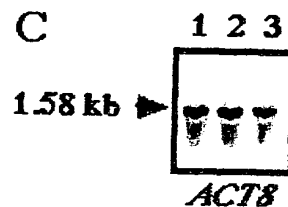
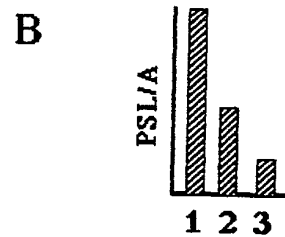
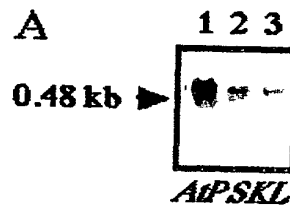


FIG. 11



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FIG. 12

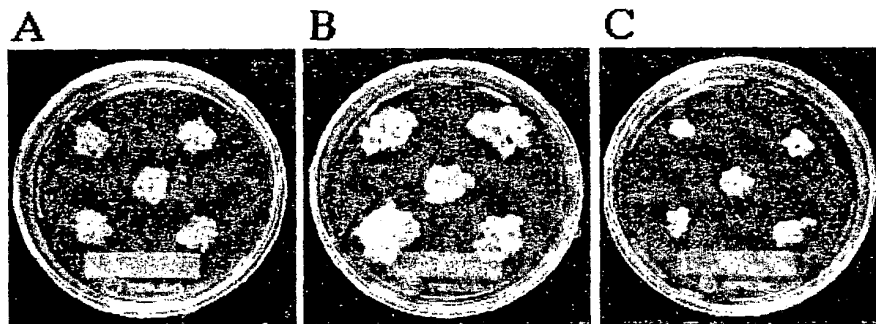


FIG. 13

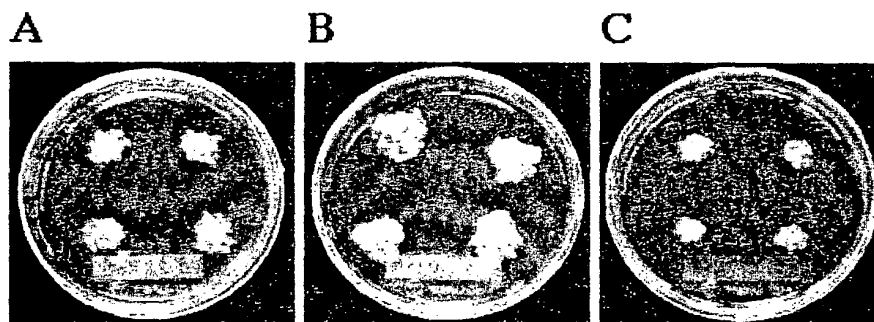


FIG. 14

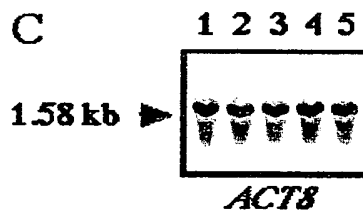
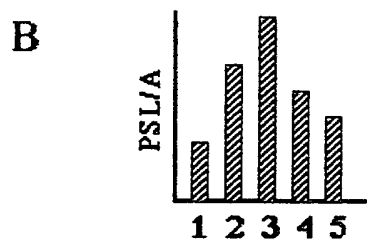
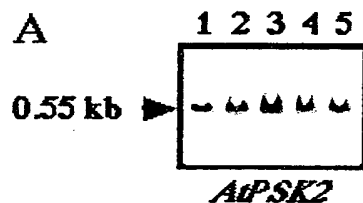


FIG. 15

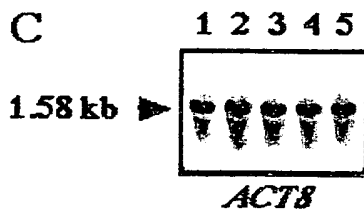
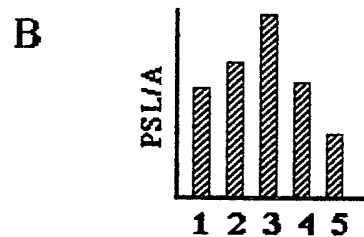
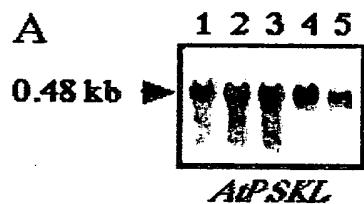


FIG. 16

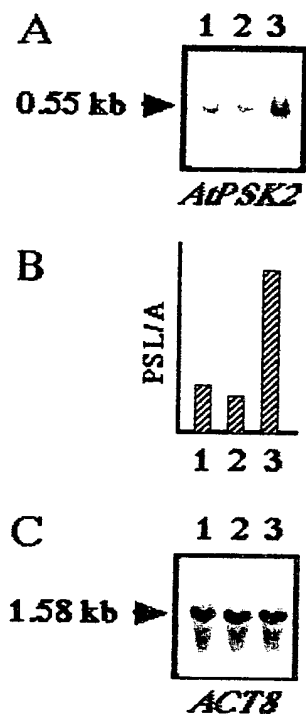


FIG. 17

